

Using the Observatory Data for Research

For researchers, academics, students and analysts — National Digital Sovereignty Observatory

Open and reproducible data

The Observatory dataset is released under the CC BY-SA 4.0 licence, the collection pipeline is open source and the methodology is documented. Every result is verifiable and every analysis is replicable.

Data dictionary

Field	Type	Description
cod_amm	string	IPA code of the public body
des_amm	string	Official name of the public body
dominio	string	Institutional email domain
mx_records	string[]	MX records detected for the domain
provider	string	Identified email provider
provider_country	ISO 3166	Country of the provider's registered office
sovereignty	enum	IT / EU / EXTRA_EU
categoria_ente	string	Type (Municipality, Local Health Authority, University, ...)
regione	string	Region of belonging

The schema may vary between versions: refer to the header of the downloaded file.

Suggested research questions

Area	Question
Geography	Territorial distribution of dependence on non-EU providers
Body size	Correlation between the body's size/resources and provider choice
Type	Comparison across categories (Municipalities, Local Health Authorities, Universities, Ministries)
Policy	Impact of AgID guidelines on technology choices over time
Economics	Estimate of public spending towards foreign vs domestic providers
EU comparison	Replication of the methodology on other Member States

How to cite

Pietrosanti, F. (2025). National Digital Sovereignty Observatory:
State of digital sovereignty in the Italian public administration.
MxMap.it data on IndicePA. CC BY-SA 4.0.
<https://osservatorio.mxmap.it/>

Resources

- Dataset (CSV/JSON) and data dictionary — Open Data section of the website
- Full methodology — Methodology section of the website
- Source code and pipeline — the project's GitHub repository
- Detailed data by public body — MxMap.it

Collaborations

Are you conducting research, a thesis or a publication on the Observatory data? Contact us via GitHub: we are interested in giving visibility to independent studies that use our data.

National Digital Sovereignty Observatory — <https://osservatorio.mxmap.it/> — CC BY-SA 4.0 document.